SBR No : 000005 BR No : 000005

Date : 28-05-2020 Date : 28-05-2020

1st & Final Bill

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No. Date:

Division: Electrical (DASARAHALLY) Head of Account: **P -3443**

Sub- Division:

Bill Received No.....Dated.....Cash Book Voucher No.....dated..... **Scheduled Docket**

Name of Work(as persanctionedestimate) .Improvements of damage electrical pole shifting to electrical poles and other electrical works in ward no 13. **Contractor and Full Address:**M/s G.S. Electricals

Work Order No: : EE/(Elec)/DZ/WO/000010/2019-20 Dated :23-01-2020

Reference to Agreement Date ..... Job No:- 013 -19-000033

Certified that the measurements were taken by me on 15/04/20 and recorded of pages 34016 to 34023 Measurement Book No 3401 and that the work is satisfactorily executed.

Contractor For G S ELECTRICALS

Officer in charge of work

Certified that the measurements were taken by me on 15/4/20 and found correct. The work is satisfactorily executed. Proprietor

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

Sub-division Officer

II Memorandum of Payment

1) Total value of work done or supplies as per account within
2) Deduct amount to be held in reserve being .....percent Rs.....
3) " Balance
4) Deduct payment :
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....
      Amount adjusted towards cash advance recovery of
   b) Payments cost store or other material supplied.
      Now made recovery amount creditable to this/ other work
      Amount paid on this bill cheque/cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments
7) Net amount due to or from contractor

Unadjusted items

8) Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied

Present bill	642030 =@
IT 1%	6420 =@
CGST	5732 =@
SGST	5732 =@
LWC 1%	6420 =@
CBF 0.1%	642 =@
Deduction (-)	24946 =@
Clg. amt	617084 =@

For G S ELECTRICALS

Contractors Signature

Audited and admitted for Rs. 642030/-

Received Rs. 617084 (in words) Six lakh seventeen thousand eighty four rupees only

by cash and adjustment of payment, helper memorandum

Witnesses:

1.

2.

Dated ..... by adjustment Rs. 24946/- Signature of contractor

Paid by me by cheque No.....Dated.....

Cash Rs.....

Accounts Superintendent Exe. Engineer (Ele)

[Initials of Officer making payment] AEE-2 Dasarahalli Division

(For use in the office)

Stamp

Executive Engineer (Ele)

Scanned by CamScanner

Sl No	Description of Item	Unit	Previous Measurement		Present Measurement			Total Upto Date		Remarks
			Qty	Cost	Qty	Rate	Amount	Qty	Cost	
	Name Of Work :- Improvements of damage electrical pole shifting to electrical poles and other electrical works in ward no 13									
1	Supplying heavy gauge PVC Conduit Pipe dia mm thick with suitable size bends metal junction boxes adhesive paste etc by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary 25mm dia 2mm thick	Mtrs			95	60 00	5700 00	95	5700 00	
2	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C C wall including necessary rawl plugs, Machine/NF screws etc complete 10-12Way	Nos			10	60 00	600 00	10	600 00	
3	Supply and fixing of Bakelite D P/Socket/ switch with/without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 GROUP A 32Amps Flush/projected type DP switch	Nos			10	60 00	600 00	10	600 00	
4	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP A 16Amps one way switch	Nos			30	100 00	3000 00	30	3000 00	
5	6/16Amps universal socket	Each			30	50 00	1500 00	30	1500 00	
6	Stepped Fan Regulator	Each			30	250 00	7500 00	30	7500 00	
7	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694 1990 & confirming to GTP of GROUP -A 1 5 sqmm	Mtrs			796	20 00	15920 00	796	15920 00	
8	2 5 sqmm	Mtr			397	25 00	9925 00	397	9925 00	
9	Point wiring using Copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade COPPER conductor flexible multistrand FRLS PVC insulated 2 X1 5Sq mm Cable confirming to the GTP with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet GROUP B Short point upto 3Mtr from tapping point to out let via switch	Points			10	200 00	2000 00	10	2000 00	
10	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch	Points			10	150 00	1500 00	10	1500 00	
11	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Points			10	100 00	1000 00	10	1000 00	
12	Supplay and Laying of 1 1KV Class HR (Heat Resistant) PVC Insulated & UnSheathed Aluminium Wires Multistrand Single core Lead wires as per IS694 2010 PVC Wire - 25 Sqmm Al Wt 6 7 Kgs Total Wt 11 5Kgs for 100Mtrs	Mtrs			98	50 00	4900 00	98	4900 00	
13	Supplay and Laying of 1 1KV Class HR (Heat Resistant) PVC Insulated & UnSheathed Aluminium Wires Multistrand Single core Lead wires as per IS694 2010 PVC Wire 16 Sqmm Al Wt 4 2 Kgs, Total Wt 7 5Kgs for 100Mtrs	Mtrs			396	20 00	7920 00	396	7920 00	
14	LED Street light Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation Diffuser with Injection moulded & is made of polycarbonate material with high transmission index delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70% CCT > 5500K IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08 Power Factor >0 9 with mains Current should not be greater than 0 1A to 0 7A & Surge Protection- Min 4KV along with Over voltage/Overpad, short circuit/ miswiring protection Compatible for pole mounting with outer dia of 40mm to 55mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Over load & Short circuit protection ensures reliable operation in spite of problem in output side Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Power consumption LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture Suitable for B1/B2 Roads as per IS 1944 Part I & Part II LED LED Streetlight 24watts	Nos			66	1800 00	118800 00	66	118800 00	

Scanned by CamScanner

15	Supplying of LED Floodlight with W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection 1 200-275V voltage with electronic Driver PF>0 9 should meet ANSI 2G vibration test Compliance to UL/CE with Class I System rating shall be 50K hrs @ Lumen maintenance of 70% system efficacy > 80lm/w Over load & Short circuit protection ensures reliable operation in spite of problem in output side Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Power consumption LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75 Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer LED Floodlight 110W								
16	Fixing halogen metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps bolts nuts and wiring using suitable capacity wires	Nos	6	7495 00	44970 00	6	44970 00		
17	Supplying and fixing telescopic M S bracket fabricated by using 0 5m length 4" dia telescopic M S pipe with 2" dia 1 5m long M S bracket and are welded with suitable angle using 6mm thick M S sheet grip bolts & nuts as required suitable for 9 to 12 mtrs M S tubular pole with necessary two coats of painting with all other accessories Single bracket 1 5 Mtr Length	Nos	72	150 00	10800 00	72	10800 00		
18	Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector Prewired with HF electronic Ballast push fit type lamp holders & main connectors Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic 1x4 -28 Watts	Nos	66	1200 00	79200 00	66	79200 00		
19	Supplying capacitor type ceiling fan complete with down rod blades shackle canopies etc for operation on 230 volts 50 cycles Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system 48 Sweep (1200mm)Regular model	Nos	25	1500 00	37500 00	25	37500 00		
20	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0 0076 twin twisted PVC insulated wires required Nos of round blocks and clamps On wall / ceiling / Rafter / Girders	Nos	15	2500 00	37500 00	15	37500 00		
21	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps ceiling rose necessary length of 23 / 0 0076 inch PVC insulated twin twisted copper wire and wiring	Nos	25	200 00	5000 00	25	5000 00		
22	Supplying of 1 1 KV LT UG cable having aluminum conductor PVC insulated extruded inner sheathed galvanized steel strip (except 2CX10Sq mm wire armoured) confirming to IS-3975 1990 (No of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1 1988 & confirming to GTP of GROUP-A 4 core 16 sqmm	Mtrs	15	200 00	3000 00	15	3000 00		
23	Labour charges for lying of 1 1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required I In existing trench/duct a)6 sqmm to 16 sqmm	Mtrs	197	90 00	17730 00	197	17730 00		
24	Digging of trench of 0 6m deep x 0 50 mtr wide refilling the trench to the required ground level and consolidating etc complete (As per Civil SR KSRB I-2 P-7)In soil (ordinary)	Per Mtr	197	20 00	3940 00	197	3940 00		
25	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps bolts nuts etc with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting Made out of 14 SWG MS enclosure II - Double Door 8Way SP &N	Nos	170	50 00	8500 00	170	8500 00		
26	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 5-32Amps SP	Nos	1	5000 00	5000 00	1	5000 00		
27	40-63Amps DP	Nos	6	1200 00	7200 00	6	7200 00		
28	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts nuts washers and wiring etc complete with AC-3 Rating and as per IS-13947 100-125Amps	Nos	1	300 00	300 00	1	300 00		
29	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts nuts and washers etc Group A PWD Elec SR 2006-07	Nos	1	4500 00	4500 00	1	4500 00		
30	Supply and erection of .... Mtr RCC Pole including earth work etc complete as per the standard technical specification of BESCOM 9Mtr 145Kg WL	Nos	1	2500 00	2500 00	1	2500 00		
			9	15000 00	135000 00	9	135000 00		

Scanned by CamScanner

31	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor and Stranded Messenger Conductor with all aluminum Alloy Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255 1995 & confirming to GTP of GROUP-A 2 X 25 + 1 X 25 SQ MM	Mtrs			297	150 00	44550 00	297	44550 00	
32	Stringing of 1.1kv LT Arial Bunched Cable BESCOM SR	Mtrs			297	25 00	7425 00	297	7425 00	
33	Supply and fixing of cross arm including all Hardware s complete as per the standard technical specification of BESCOM 2 Pin 45x45x5mm 510mm	Nos			10	250 00	2500 00	10	2500 00	
34	Suspension clamp suitable for insulated Messsenger wire of size 25 to 95Sq mm	Nos			10	150 00	1500 00	10	1500 00	
35	Universal Hook and Bolts & Nuts	Nos			10	50 00	500 00	10	500 00	
36	Dead End Clamp/Anchor Clamp Assembly 16 to 70 Somm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos			4	150 00	600 00	4	600 00	
37	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger	Nos			10	125 00	1250 00	10	1250 00	
38	Fixing of Universal Hook Dead end clamp	Nos			4	50 00	200 00	4	200 00	
	Grand Total Rs						642030 00		642030 00	

Certificate 1 Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Elec)
BBMP, Bangalore

Scanned by CamScanner